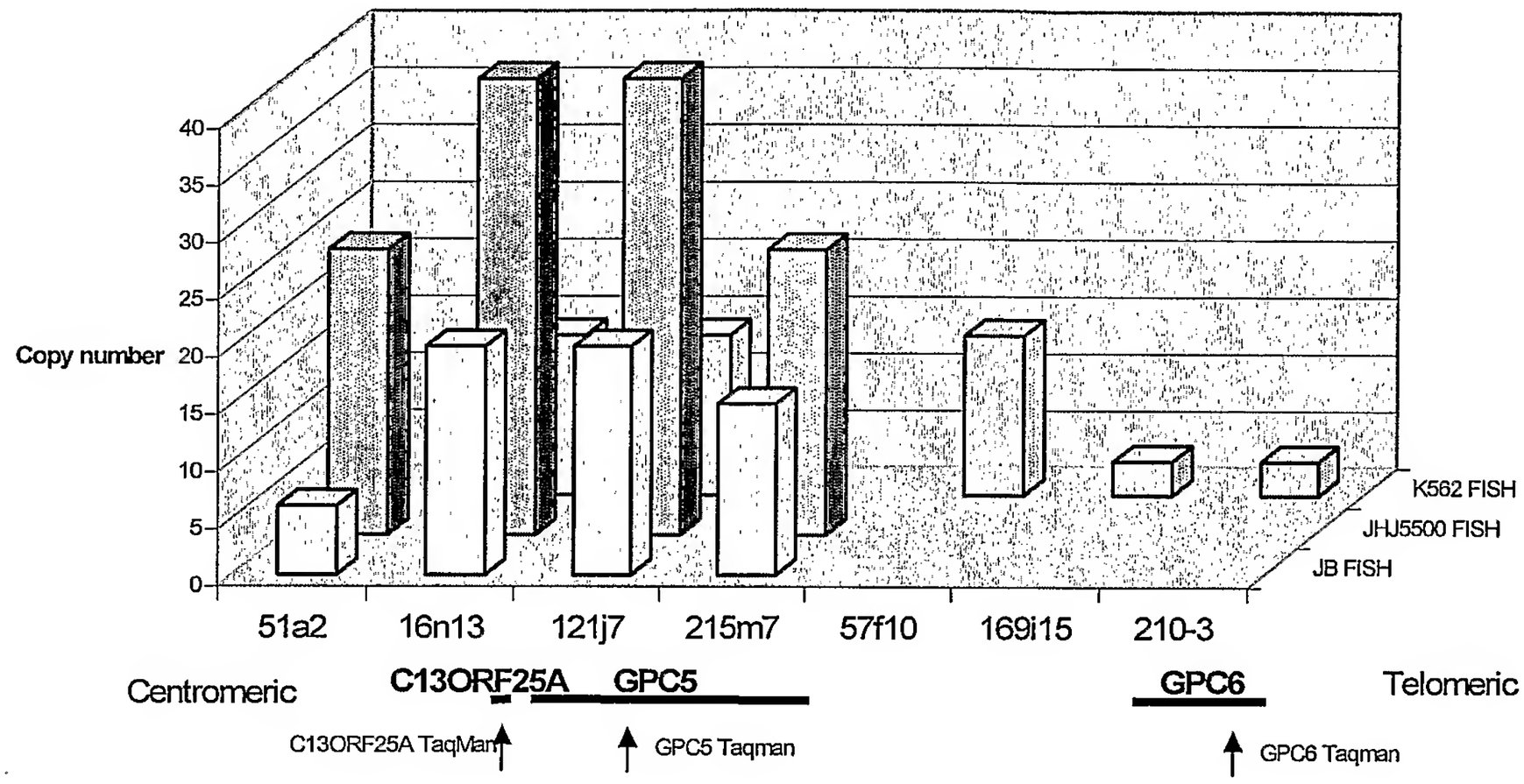
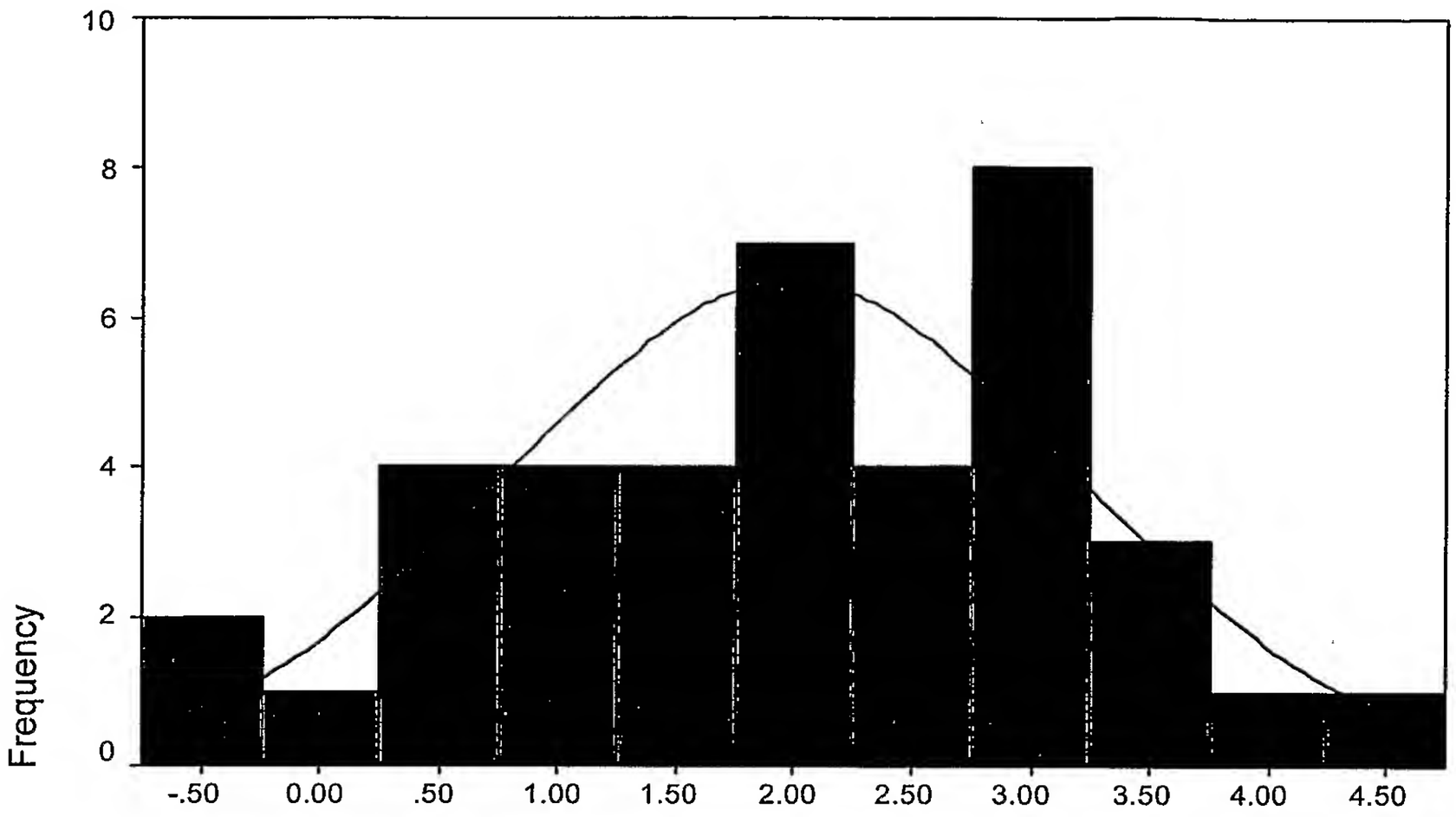

Copy number
40
35
30
25
20
15
10
5
0
51a2
16n13
121j7
215m7
57f10
169i15
210-3
K562 FISH
JHJ5500 FISH
JB FISH
Centromeric
C13ORF25A
GPC5
GPC6
Telomeric
C13ORF25A TaqMan
GPC5 Taqman
GPC6 Taqman

Figure 1

(A)


10
8
6
4
2
0
Frequency
-.50
0.00
.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
Log GPC5 expression relative to normal muscle

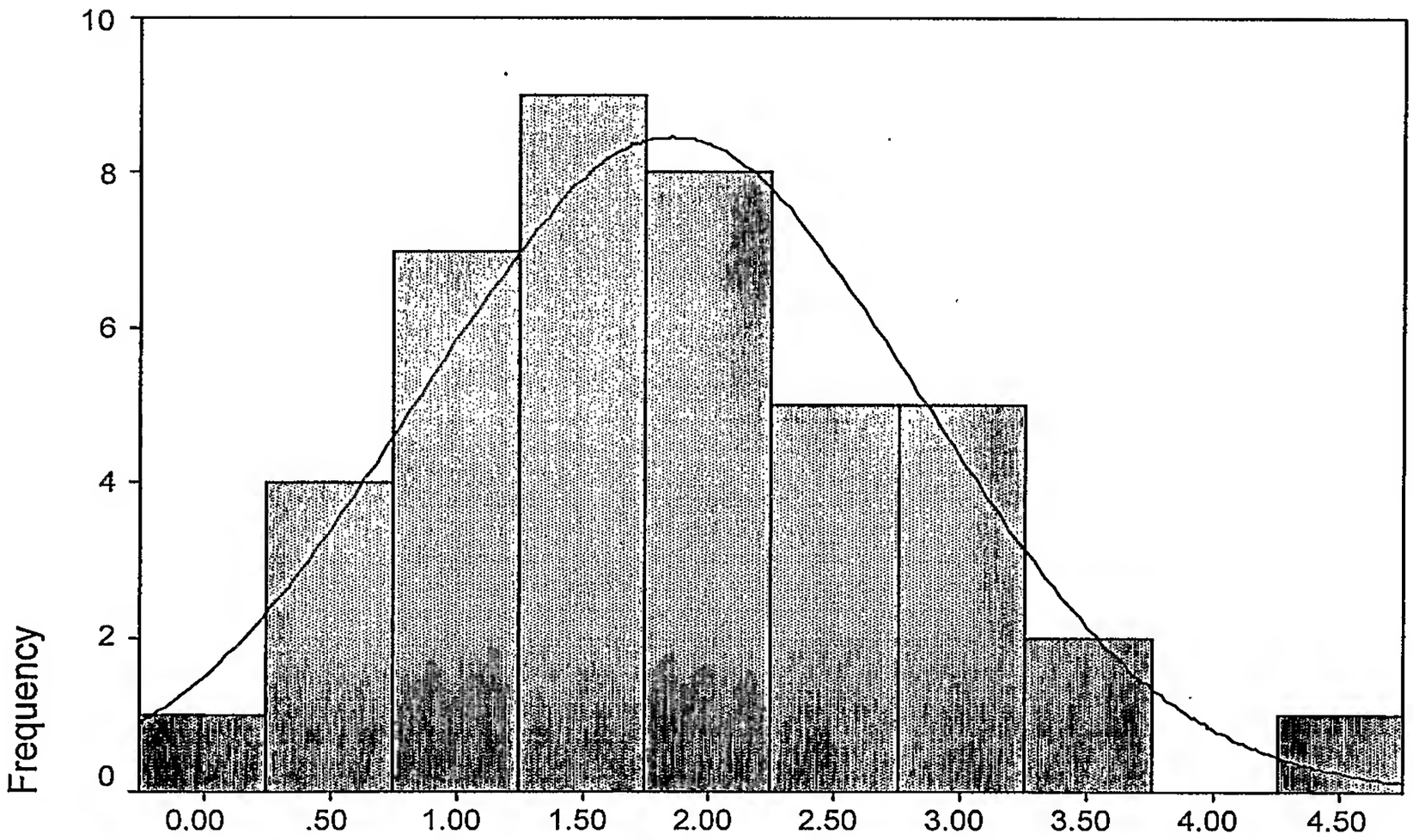

10
8
6
4
2
0
Frequency
0.00
.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
Log GPC5 expression relative to normal muscle

Figure 2

(B)

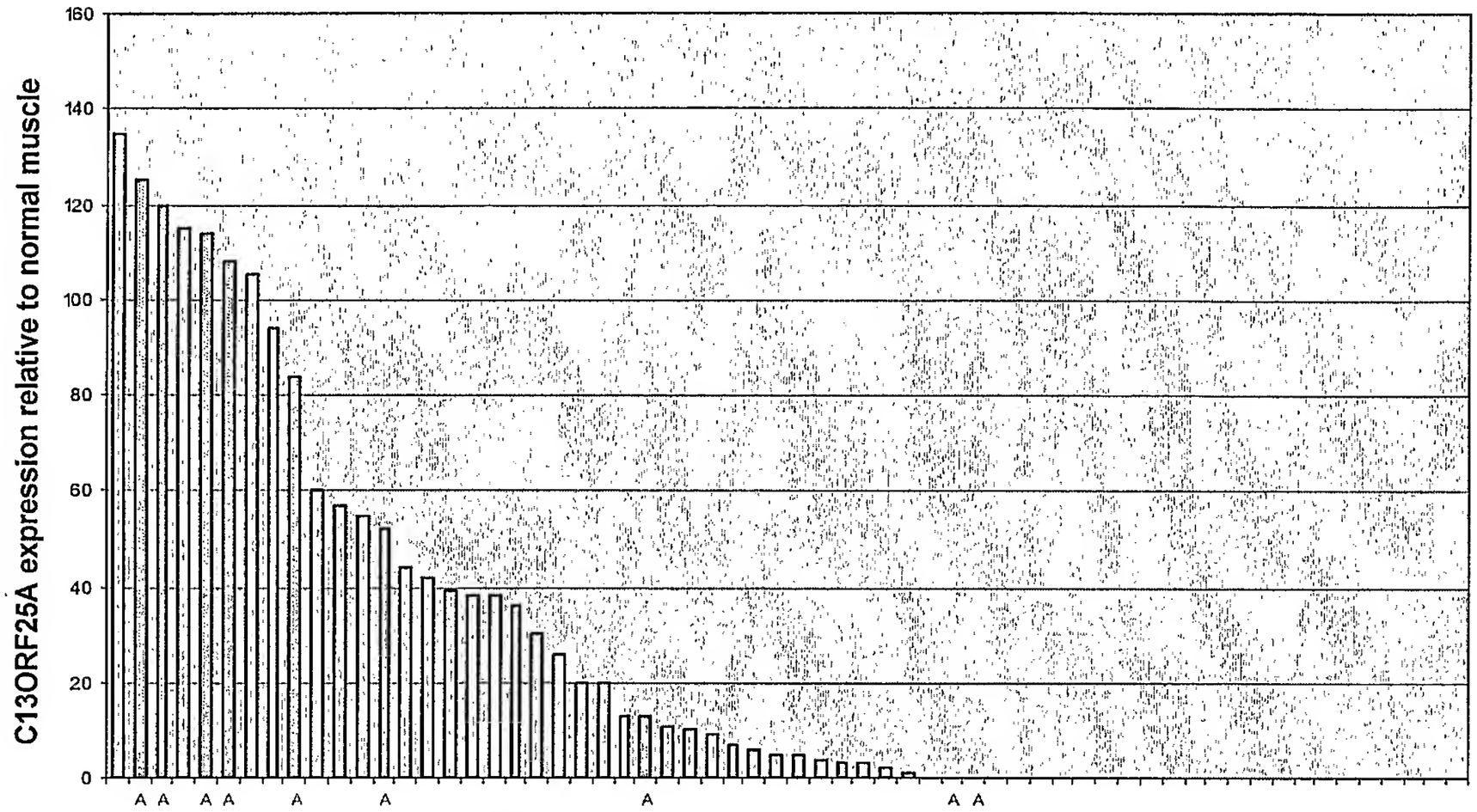


Figure 2 cont'd.

(A)

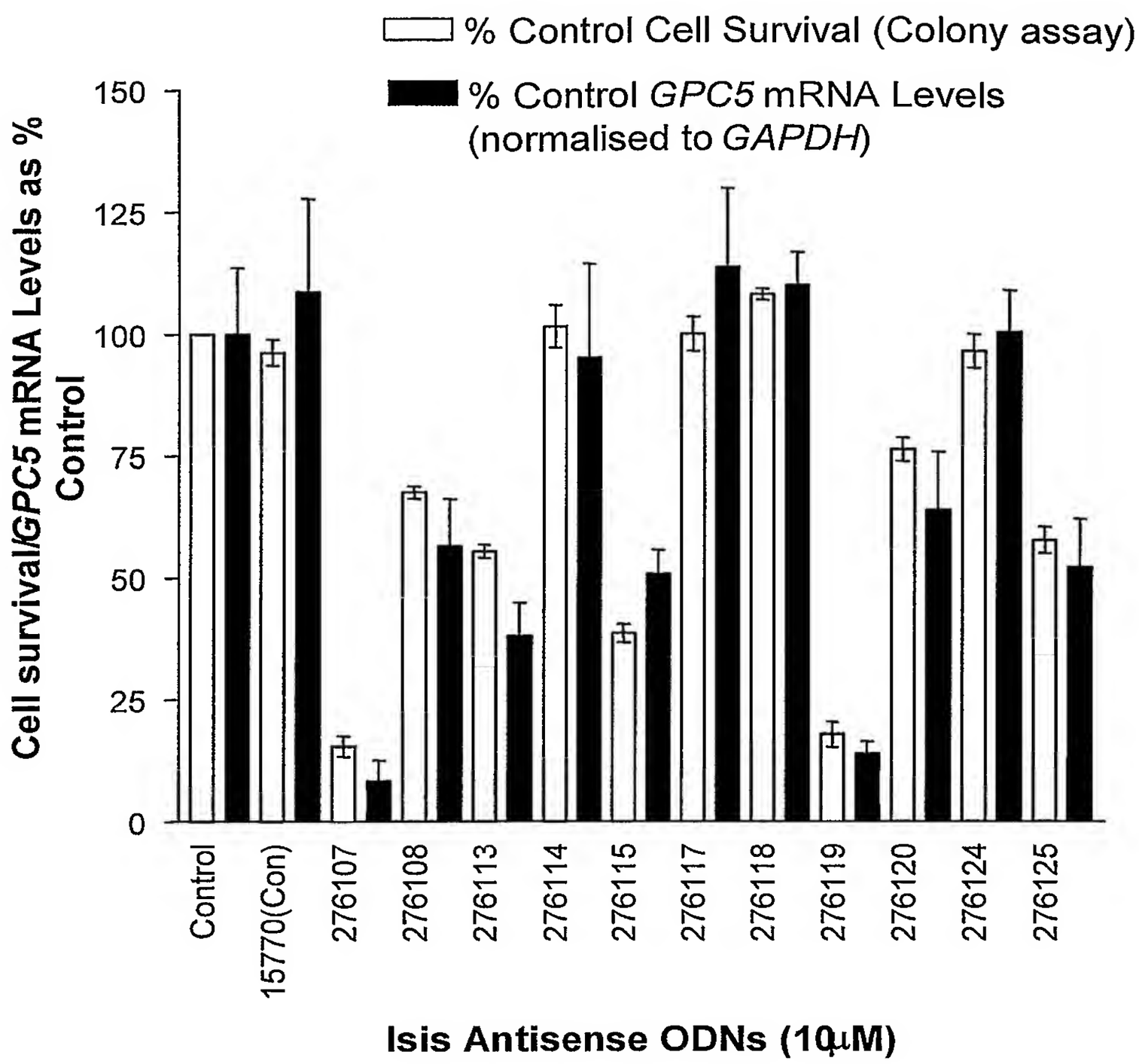
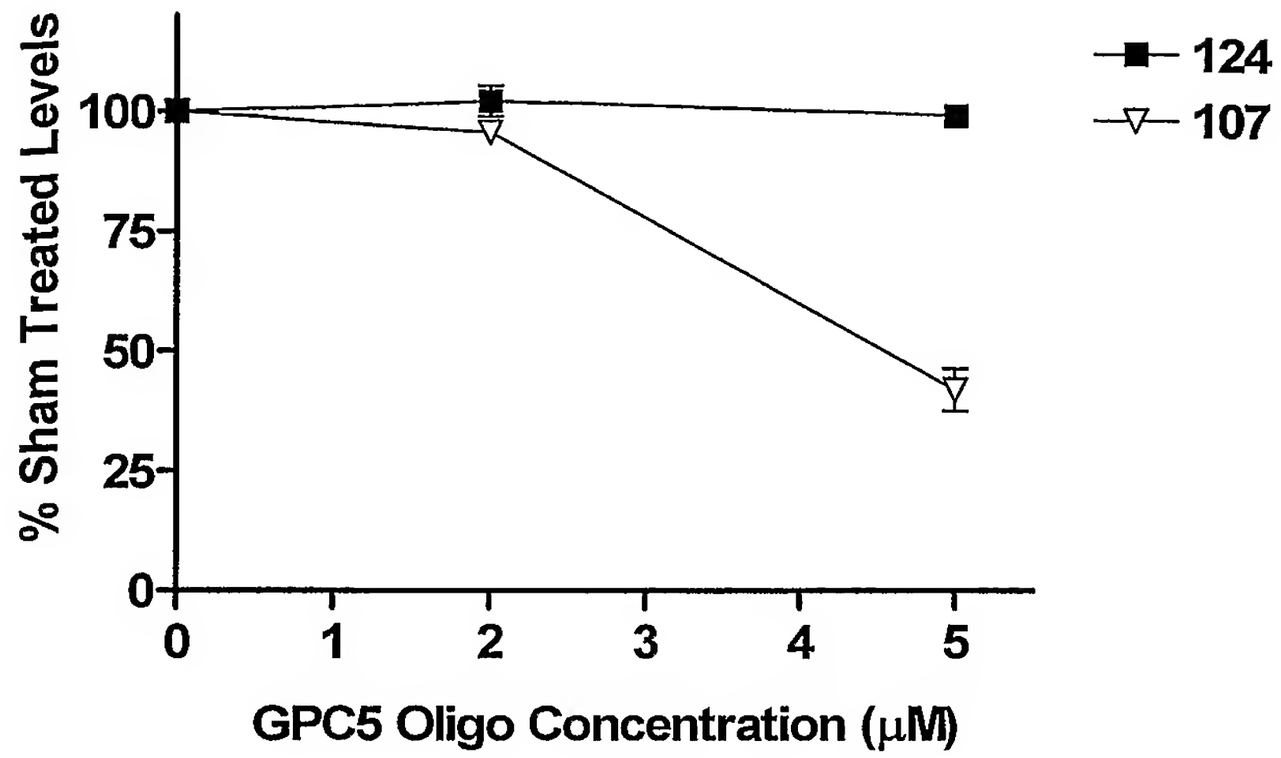

% Control Cell Survival (Colony assay)
% Control GPC5 mRNA Levels (normalised to GAPDH)
Cell survival/GPC5 mRNA Levels as % Control
150
125
100
75
50
25
0
Control
15770(Con)
276107
276108
276113
276114
276115
276117
276118
276119
276120
276124
276125
Isis Antisense ODNs (10μM)

Figure 3

(B)



(C)

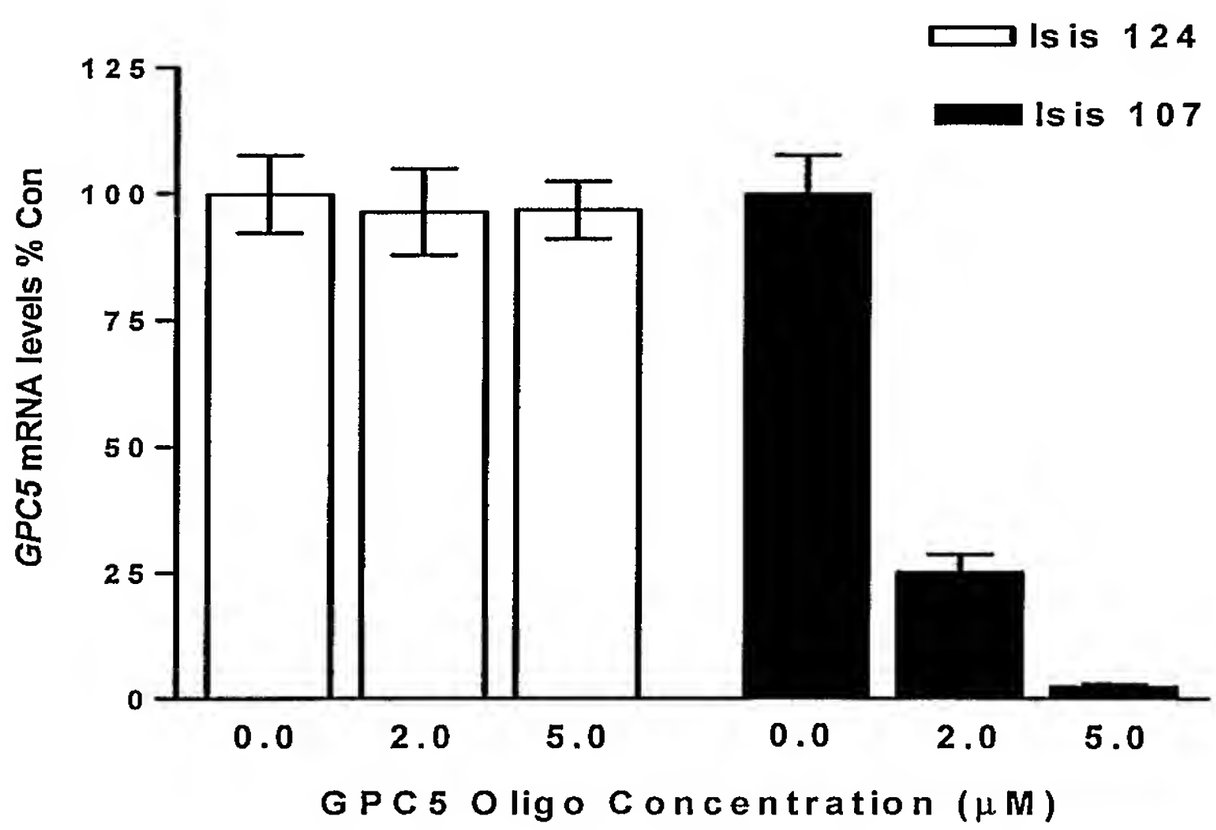
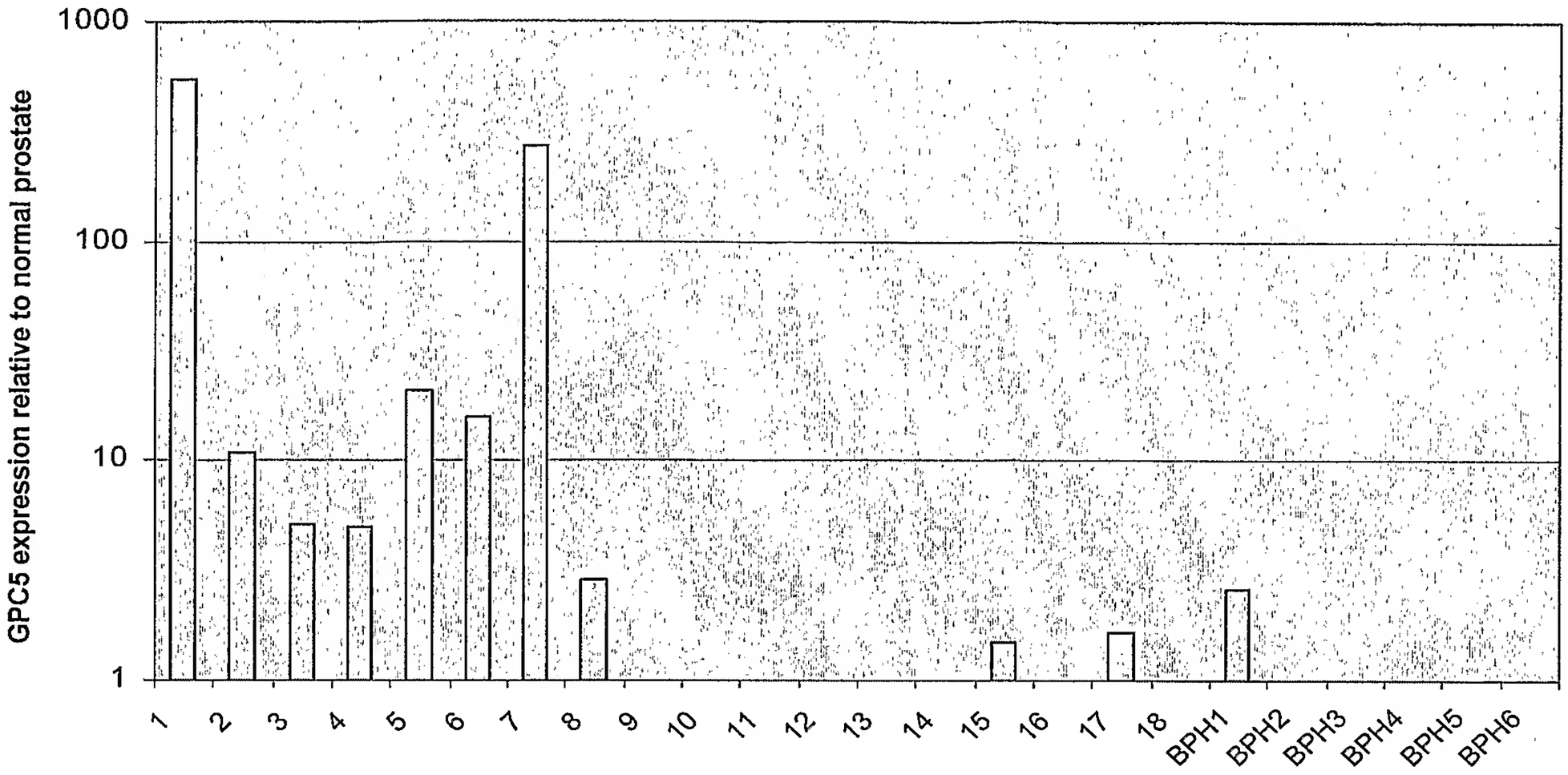


Figure 3 (contd.)

(A)


GPC5 expression relative to normal prostate
1000
100
10
1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
BPH1
BPH2
BPH3
BPH4
BPH5
BPH6

(B)

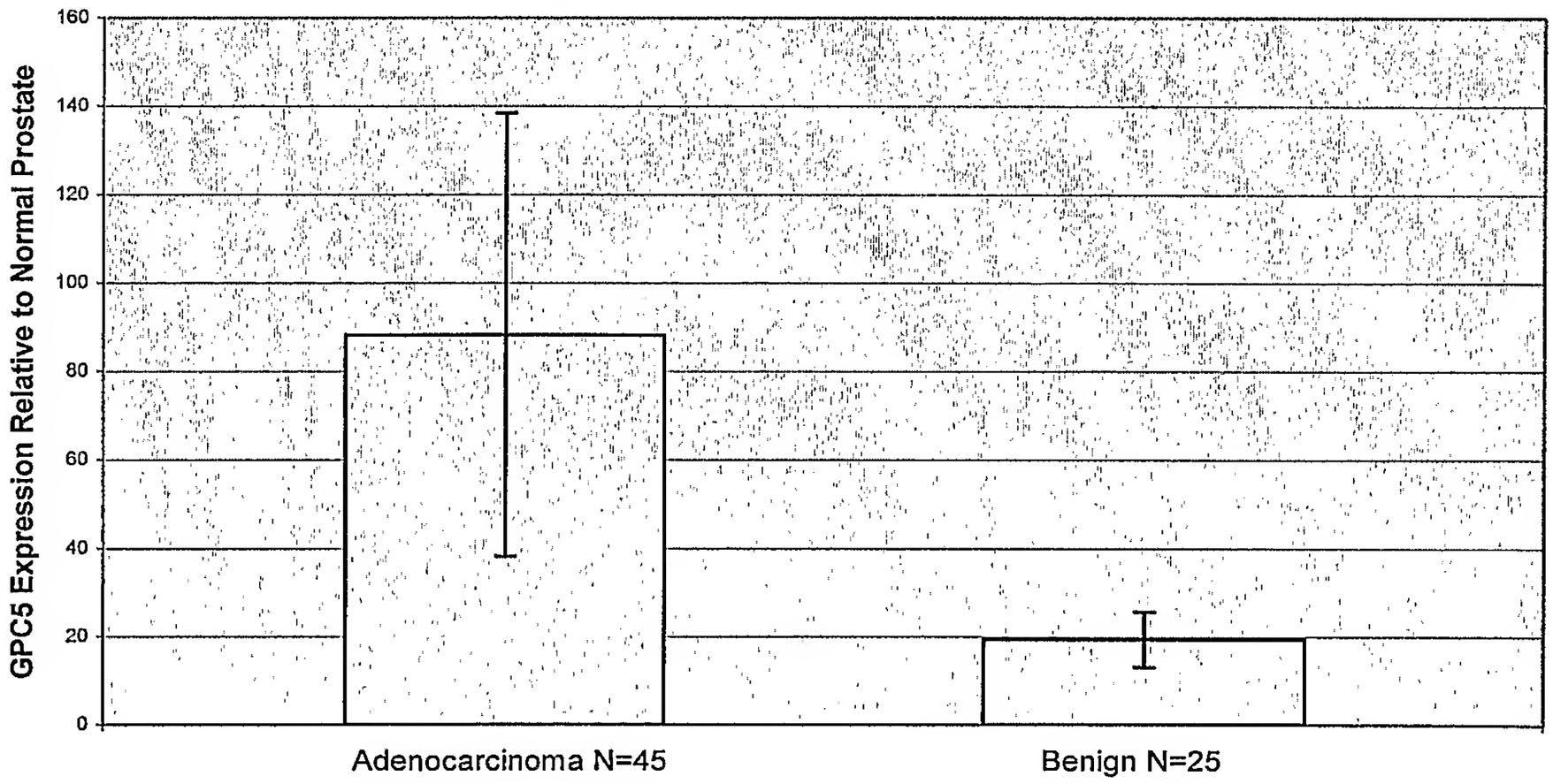
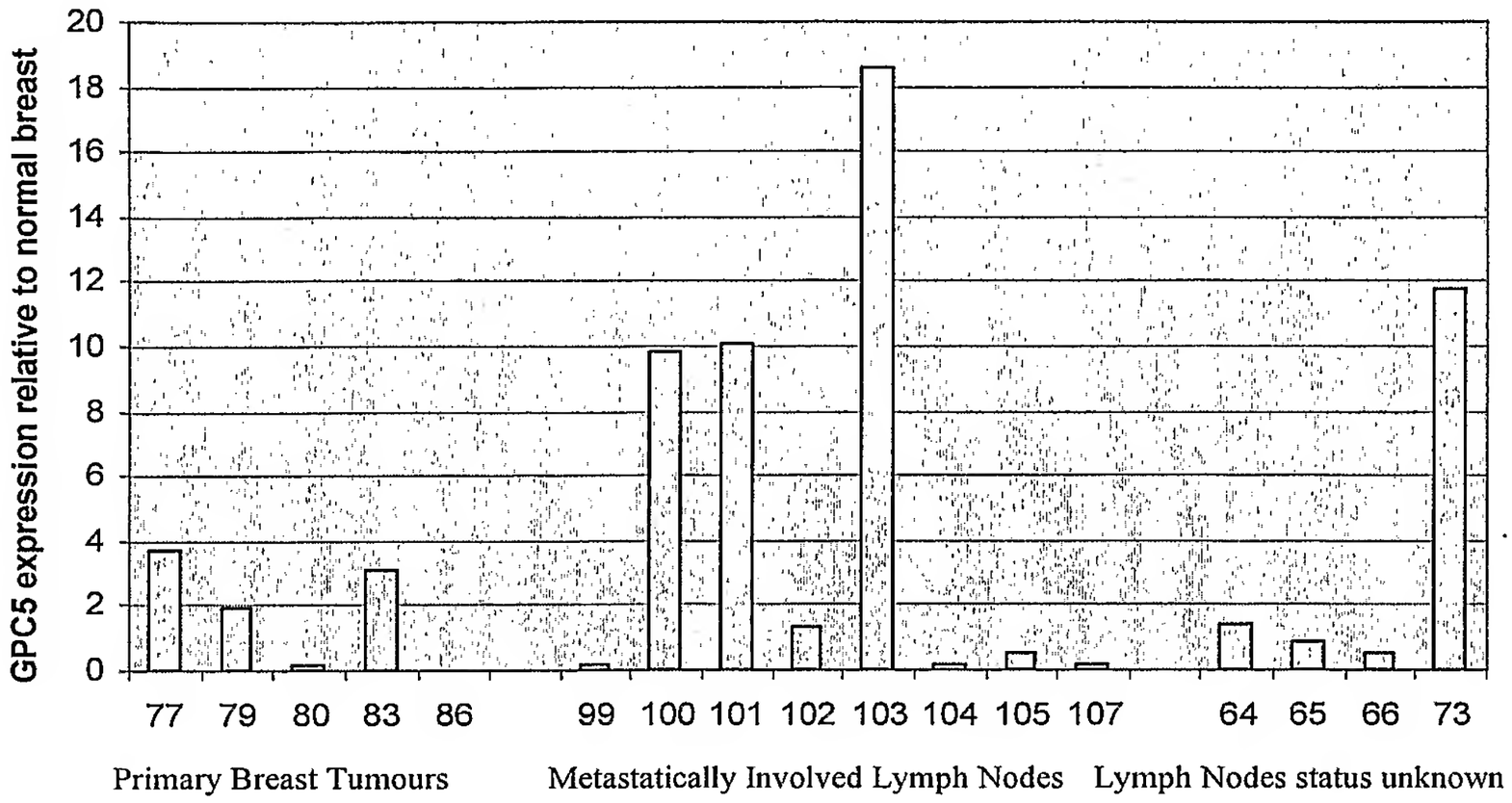

GPC5 Expression Relative to Normal Prostate
160
140
120
100
80
60
40
20
0
Adenocarcinoma N=45
Benign N=25

Figure 4

(A)


GPC5 expression relative to normal breast
20
18
16
14
12
10
8
6
4
2
0
77 79 80 83 86
99 100 101 102 103 104 105 107
64 65 66 73
Primary Breast Tumours
Metastatically Involved Lymph Nodes
Lymph Nodes status unknown

(B)

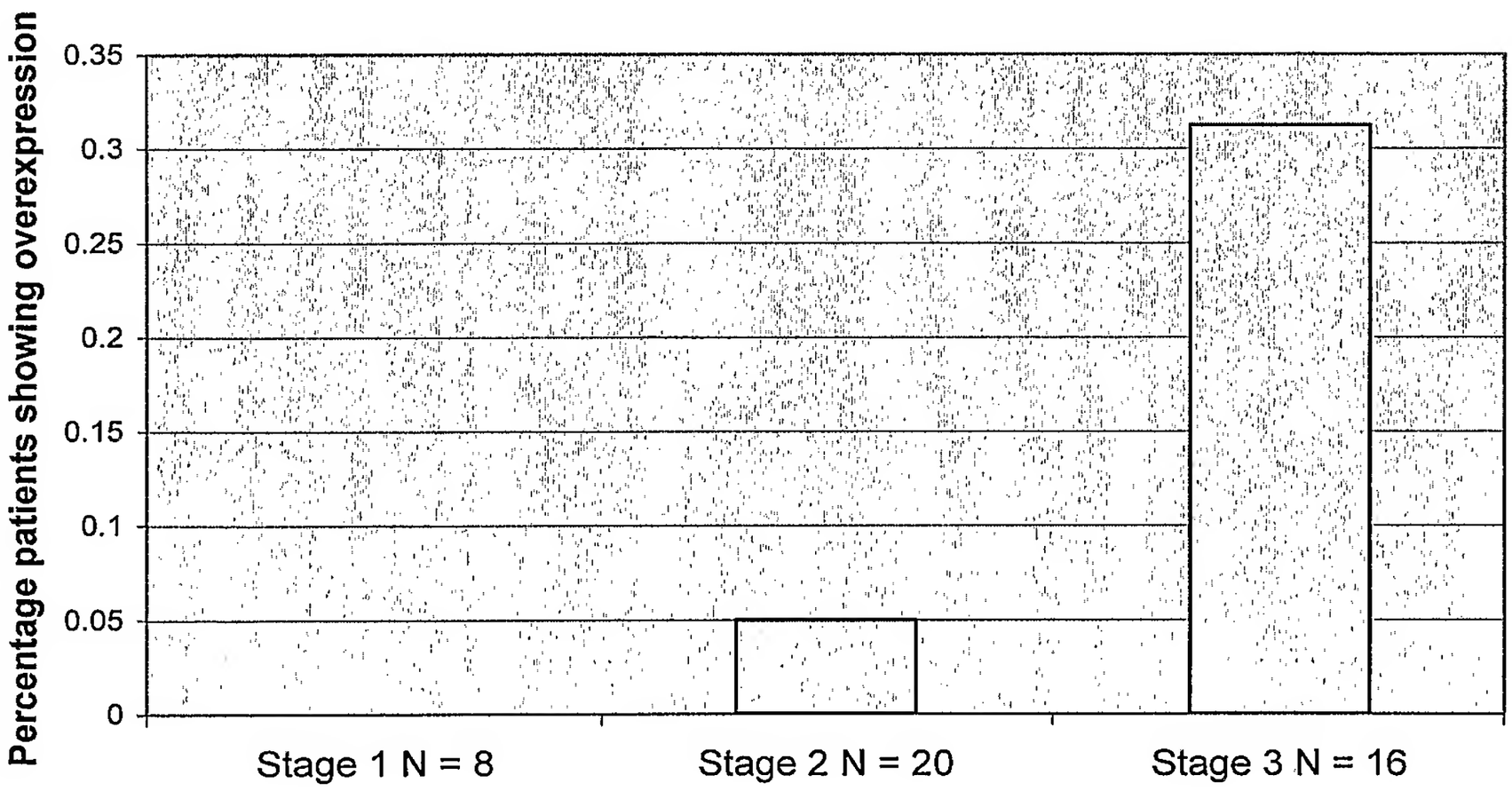

Percentage patients showing overexpression
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Stage 1 N = 8
Stage 2 N = 20
Stage 3 N = 16

Figure 5

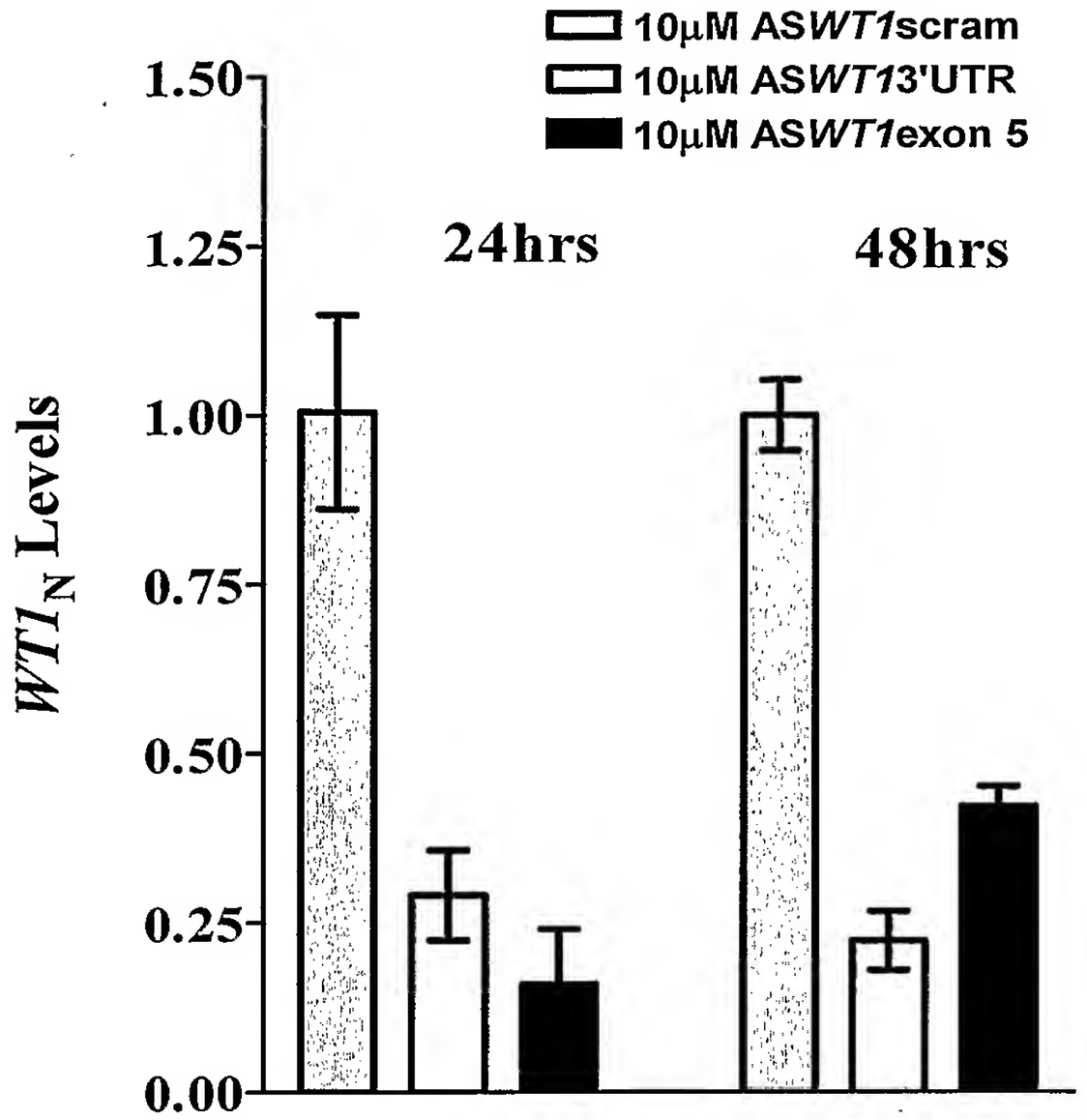

10μM ASWT1scram
10μM ASWT13'UTR
10μM ASWT1exon 5
24hrs
48hrs
WT1N Levels
1.50
1.25
1.00
0.75
0.50
0.25
0.00

Figure 6(a)

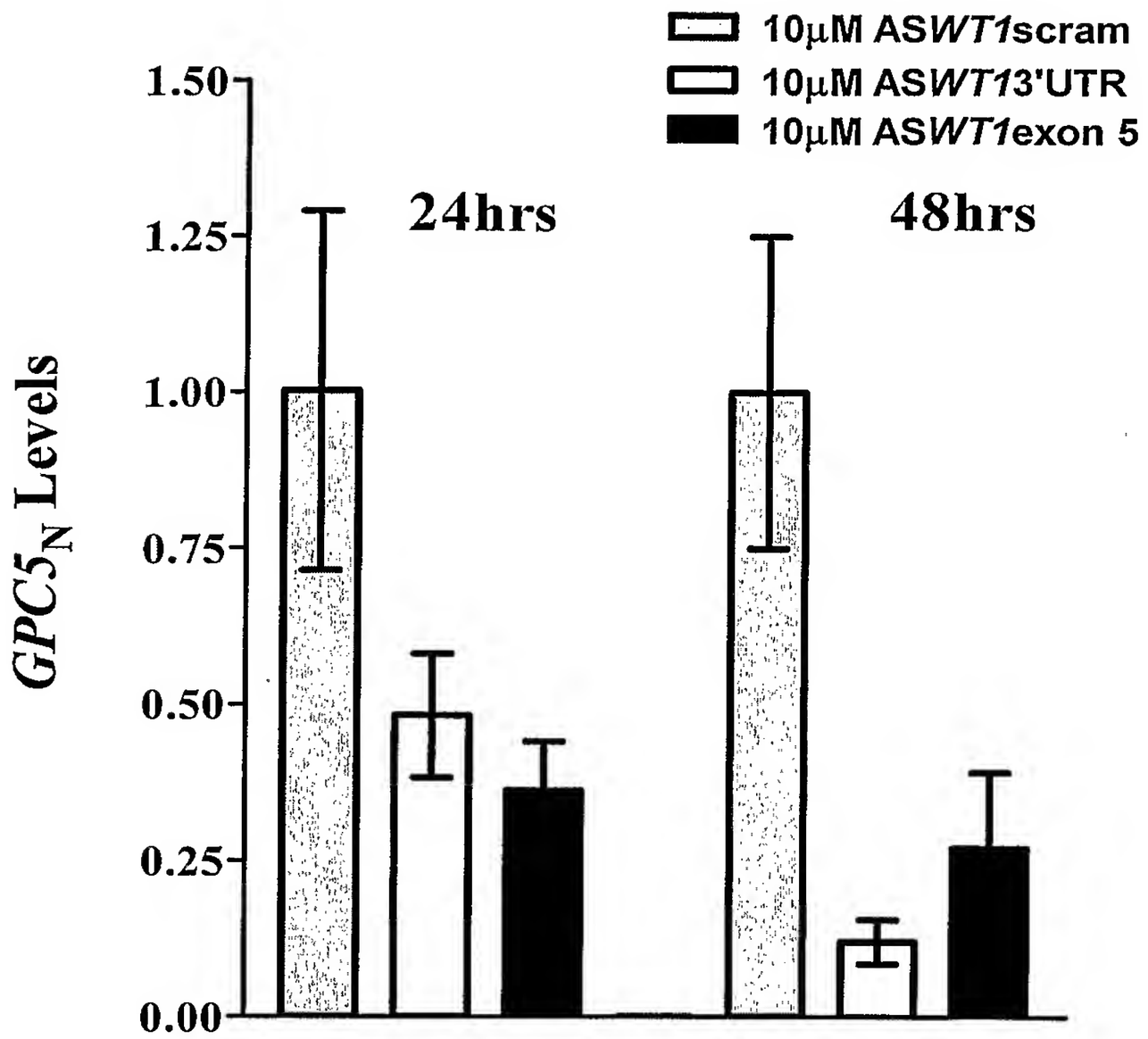

10μM ASWT1scram
10μM ASWT13'UTR
10μM ASWT1exon 5
24hrs
48hrs
GPC5N Levels
1.50
1.25
1.00
0.75
0.50
0.25
0.00

Figure 6(b)

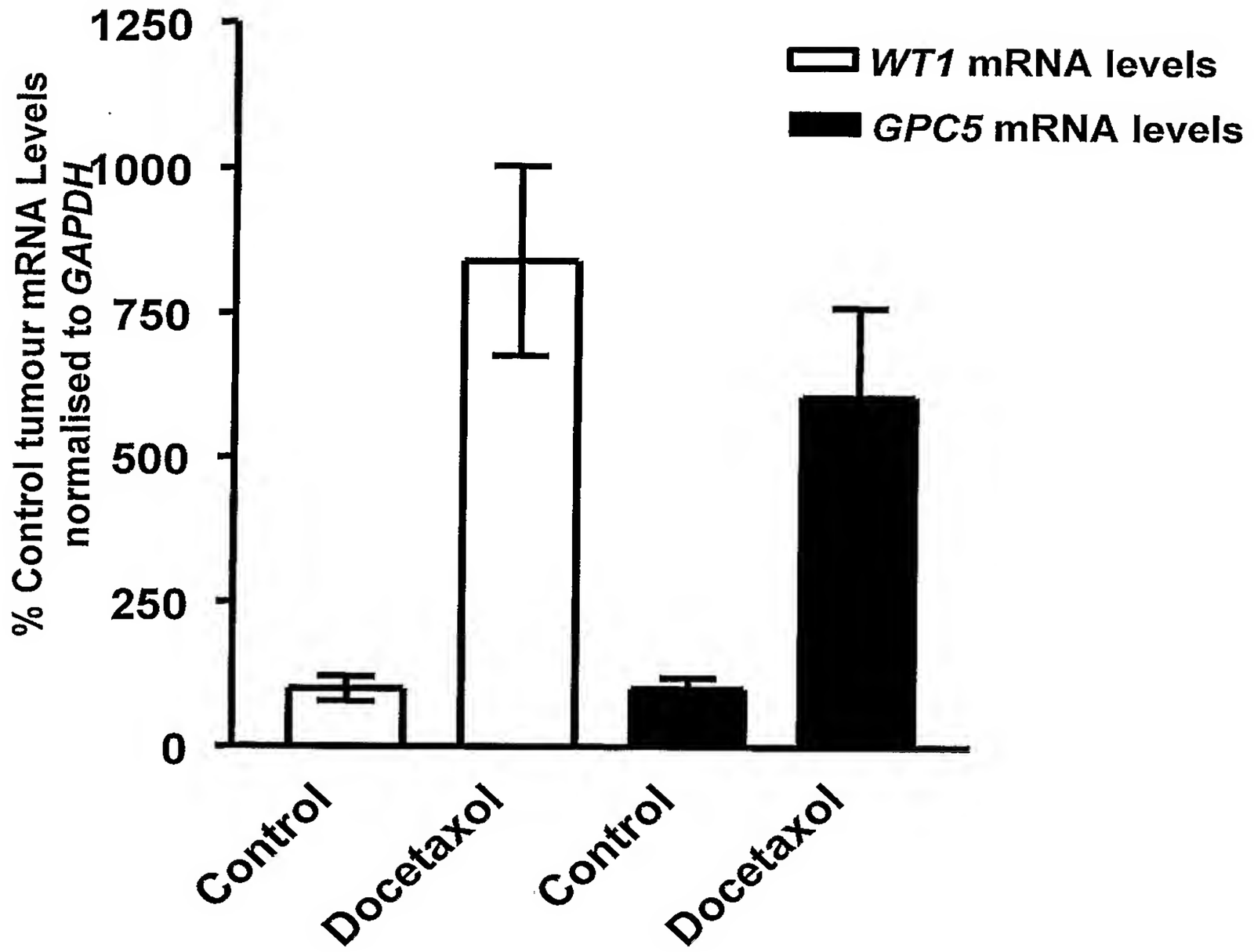

1250
1000
750
500
250
0
% Control tumour mRNA Levels normalised to GAPDH
WT1 mRNA levels
GPC5 mRNA levels
Control
Docetaxol
Control
Docetaxol

Figure 7

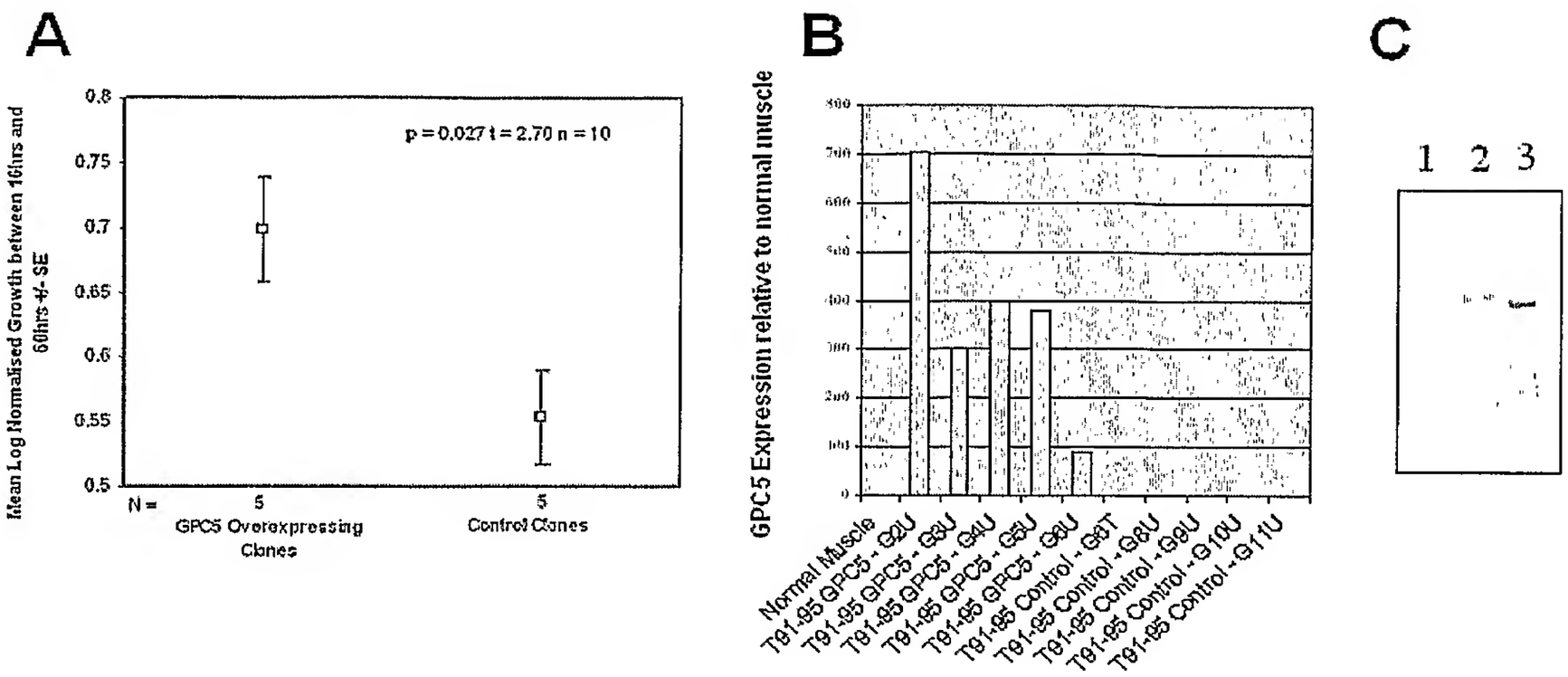

A
B
C
p = 0.027 t = 2.70 n = 10
Mean Log Normalised Growth between 16hrs and 60hrs +/- SE
0.8
0.75
0.7
0.65
0.6
0.55
0.5
N =
5
5
GPC5 Overexpressing Clones
Control Clones
GPC5 Expression relative to normal muscle
Normal Muscle
T91-95 GPC5 - G2U
T91-95 GPC5 - G3U
T91-95 GPC5 - G4U
T91-95 GPC5 - G5U
T91-95 GPC5 - G6U
T91-95 Control - G6T
T91-95 Control - G8U
T91-95 Control - G9U
T91-95 Control - G10U
T91-95 Control - G11U
1 2 3

Figure 8